



Since January 2020 Elsevier has created a COVID-19 resource centre with free information in English and Mandarin on the novel coronavirus COVID-19. The COVID-19 resource centre is hosted on Elsevier Connect, the company's public news and information website.

Elsevier hereby grants permission to make all its COVID-19-related research that is available on the COVID-19 resource centre - including this research content - immediately available in PubMed Central and other publicly funded repositories, such as the WHO COVID database with rights for unrestricted research re-use and analyses in any form or by any means with acknowledgement of the original source. These permissions are granted for free by Elsevier for as long as the COVID-19 resource centre remains active.

## The invisible pandemic

Many countries (and members of their press media) have marvelled at Sweden's relaxed strategy in the face of the coronavirus disease 2019 (COVID-19) pandemic: schools and most workplaces have remained open, and police officers were not checking one's errands in the street. Severe critics have described it as Sweden sacrificing its (elderly) citizens to quickly reach herd immunity.<sup>1</sup> The death toll has surpassed our three closest neighbours, Denmark, Norway, and Finland, but the mortality remains lower than in the UK, Spain, and Belgium.<sup>2</sup>

It has become clear that a hard lockdown does not protect old and frail people living in care homes—a population the lockdown was designed to protect.<sup>3</sup> Neither does it decrease mortality from COVID-19, which is evident when comparing the UK's experience with that of other European countries.

PCR testing and some straight-forward assumptions indicate that, as of April 29, 2020, more than half a million people in Stockholm county, Sweden, which is about 20–25% of the population, have been infected (Hansson D, Swedish Public Health Agency, personal communication). 98–99% of these people are probably unaware or uncertain of having had the infection; they either had symptoms that were severe, but not severe enough for them to go to a hospital and get tested, or no symptoms at all. Serology testing is now supporting these assumptions.<sup>4</sup>

These facts have led me to the following conclusions. Everyone will be exposed to severe acute respiratory syndrome coronavirus 2, and most people will become infected. COVID-19 is spreading like wildfire in all countries, but we do not see it—it almost always spreads from younger people with no or weak symptoms to other people who will also have mild symptoms. This is the real pandemic,

but it goes on beneath the surface, and is probably at its peak now in many European countries. There is very little we can do to prevent this spread: a lockdown might delay severe cases for a while, but once restrictions are eased, cases will reappear. I expect that when we count the number of deaths from COVID-19 in each country in 1 year from now, the figures will be similar, regardless of measures taken.

Measures to flatten the curve might have an effect, but a lockdown only pushes the severe cases into the future—it will not prevent them. Admittedly, countries have managed to slow down spread so as not to overburden health-care systems, and, yes, effective drugs that save lives might soon be developed, but this pandemic is swift, and those drugs have to be developed, tested, and marketed quickly. Much hope is put in vaccines, but they will take time, and with the unclear protective immunological response to infection, it is not certain that vaccines will be very effective.

In summary, COVID-19 is a disease that is highly infectious and spreads rapidly through society. It is often quite symptomless and might pass unnoticed, but it also causes severe disease, and even death, in a proportion of the population, and our most important task is not to stop spread, which is all but futile, but to concentrate on giving the unfortunate victims optimal care.

I declare no competing interests.

**Johan Giesecke**

**johan.giesecke@ki.se**

Karolinska Institute, SE- 171 77 Stockholm, Sweden

- 1 Henley J. Swedish PM warned over 'Russian roulette-style' Covid-19 strategy. March 23, 2020. <https://www.theguardian.com/world/2020/mar/23/swedish-pm-warned-russian-roulette-covid-19-strategy-herd-immunity> (accessed May 1, 2020).
- 2 European Centre for Disease Prevention and Control. COVID-19 situation update worldwide, as of 1 May 2020. May 1, 2020. <https://www.ecdc.europa.eu/en/geographical-distribution-2019-ncov-cases> (accessed May 1, 2020).
- 3 BBC. Coronavirus: Hard to prevent care home deaths, says Chris Whitty. April 22, 2020. <https://www.bbc.co.uk/news/uk-politics-52386808> (accessed May 1, 2020).

- 4 Hedberg K. Var femte anställd på Danderyds sjukhus har haft smittan. April 27, 2020. <https://www.dn.se/sthlm/var-femte-anstalld-pa-danderyds-sjukhus-har-haft-smittan/> (accessed May 1, 2020).



Published Online  
May 5, 2020  
[https://doi.org/10.1016/S0140-6736\(20\)31035-7](https://doi.org/10.1016/S0140-6736(20)31035-7)

Submissions should be made via our electronic submission system at <http://ees.elsevier.com/thelancet/>